according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

Diazoxide (>30%) Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
2.3	28.09.2024	4091801-00013	Date of first issue: 21.03.2019

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product identifier Trade name	:	Diazoxide (>30%) Formulation
1.2	Relevant identified uses of th	e s	ubstance or mixture and uses advised against
	Use of the Sub- stance/Mixture	:	Pharmaceutical
	Recommended restrictions on use	:	Not applicable
1.3	Details of the supplier of the	safe	ety data sheet
	Company	:	MSD Piercetown A86 HD21 Dunboyne, Ireland
	Telephone	:	908-740-4000
	E-mail address of person responsible for the SDS	:	EHSDATASTEWARD@msd.com

1.4 Emergency telephone number

1-908-423-6000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Reproductive toxicity, Category 1B Specific target organ toxicity - repeated exposure, Category 1 H360D: May damage the unborn child. H372: Causes damage to organs through prolonged or repeated exposure.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

2

Hazard pictograms

Signal word	:	Danger
Hazard statements	:	H360D H372

May damage the unborn child. Causes damage to organs through prolonged or

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



Diazoxide (>30%) Formulation

Version 2.3	Revision Date: 28.09.2024	SDS Number: 4091801-00013	Date of last issue: 06.04.2024 Date of first issue: 21.03.2019	

Prevention:

repeated exposure.

Precautionary statements

P201 Obtain special instructions before use.

- P260 Do not breathe dust.
- P264 Wash skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

Hazardous components which must be listed on the label:

•

Diazoxide

Additional Labelling

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 32.258 %

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin. May form explosive dust-air mixture during processing, handling or other means.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Diazoxide	364-98-7 206-668-1	Acute Tox. 4; H302 Repr. 1B; H360D STOT RE 1; H372 (Pancreas, Kidney,	>= 30 - < 50



Diazoxide (>30%) Formulation

Versio 2.3	n Revision Date: 28.09.2024	SDS Number: 4091801-00013	Date of last issue: 06.04.2024 Date of first issue: 21.03.2019		
			Heart)		
F	For explanation of abbreviations see section 16.				
SECT	ION 4: First aid measu	res			
4.1 De	escription of first aid mea	sures			
G	eneral advice	vice immediate	ccident or if you feel unw ly. is persist or in all cases o		
P	rotection of first-aiders	and use the rec	nders should pay attentio commended personal pro tial for exposure exists (s	tective equipment	
lf	inhaled	: If inhaled, remo Get medical att			
In	a case of skin contact	of water. Remove contar Get medical att Wash clothing b			
In	a case of eye contact	: If in eyes, rinse Get medical att	well with water. ention if irritation develop	es and persists.	
lf	swallowed	Get medical att	O NOT induce vomiting. ention. oroughly with water.		
4.2 Mc	ost important symptoms	and effects, both acu	ite and delayed		
R	isks	: May damage th Causes damag exposure.	e unborn child. e to organs through prolo	onged or repeated	
		the skin.	ist can cause mechanica th the eyes can lead to n		
4.3 Inc	dication of any immediate	e medical attention a	nd special treatment ne	eded	
	reatment		atically and supportively.		
SECT	ION 5: Firefighting me	asures			

5.1 Extinguishing media

Suitable extinguishing media : Water spray



Diazoxide (>30%) Formulation

Ver 2.3	sion	Revision Date: 28.09.2024		DS Number: 91801-00013	Date of last issue: 06.04.2024 Date of first issue: 21.03.2019
				Alcohol-resistant Carbon dioxide (C Dry chemical	
Unsuitable extinguishing media		:	None known.		
5.2	Special	hazards arising from	the	substance or mi	xture
	-	c hazards during fire-	:	Avoid generating concentrations, a potential dust exp	dust; fine dust dispersed in air in sufficient nd in the presence of an ignition source is a
	Hazaro ucts	lous combustion prod-	:	Carbon oxides Chlorine compour Nitrogen oxides (I Sulphur oxides	
5.3	Advice	for firefighters			
010		I protective equipment	:		e, wear self-contained breathing apparatus. tective equipment.
	Specifi ods	c extinguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to do

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
6.2 Environmental precautions		
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
6.3 Methods and material for cor	ntai	nment and cleaning up
Methods for cleaning up	•	Sweep up or vacuum up spillage and collect in suitable con-

Methods for cleaning up :	Sweep up or vacuum up spillage and collect in suitable con- tainer for disposal. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Dust deposits should not be allowed to accumulate on surfac-
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Diazoxide (>30%) Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
2.3	28.09.2024	4091801-00013	Date of first issue: 21.03.2019
		leased into the Local or nationa posal of this ma employed in the mine which reg Sections 13 and	ay form an explosive mixture if they are re- atmosphere in sufficient concentration. al regulations may apply to releases and dis- aterial, as well as those materials and items e cleanup of releases. You will need to deter- ulations are applicable. d 15 of this SDS provide information regarding national requirements.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

	•	
Technical measures	:	Static electricity may accumulate and ignite suspended dust causing an explosion. Provide adequate precautions, such as electrical grounding
Local/Total ventilation	:	and bonding, or inert atmospheres. If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	:	Do not get on skin or clothing. Do not breathe dust. Do not swallow. Avoid contact with eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Keep container tightly closed. Minimize dust generation and accumulation. Keep container closed when not in use. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Do not eat, drink or smoke when using this product. Take care to prevent spills, waste and minimize release to the environment.
Hygiene measures	:	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contami- nated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the use of administrative controls.
2 Conditions for safe storage	e inc	luding any incompatibilities

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage	:	Keep in properly labelled containers. Store locked up. Keep
areas and containers		tightly closed. Store in accordance with the particular national
		regulations.



Diazoxide (>30%) Formulation

Version 2.3	Revision Date: 28.09.2024	SDS Number: 4091801-00013	Date of last issue: 06.04.2024 Date of first issue: 21.03.2019
Advice	e on common storage	Strong oxidiz	substances and mixtures
-	i c end use(s) fic use(s)	: No data avail	able

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

dusts non-specific	4 mg/m3 Value type (Form of exposure): OELV - 8 hrs (TWA) (Respirable dust) Basis: IE OEL
	10 mg/m3

Value type (Form of exposure): OELV - 8 hrs (TWA) (inhalable dust) Basis: IE OEL

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Diazoxide	364-98-7	TWA	50 µg/m3 (OEB 3)	Internal
		Wipe limit	500 μg/100 cm²	Internal

8.2 Exposure controls

Engineering measures

All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.

Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face containment devices).

Minimize open handling.

Personal protective equipment

Eye/face protection	:	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.
Hand protection		
Material	:	Chemical-resistant gloves



Diazoxide (>30%) Formulation

Version 2.3	Revision Date: 28.09.2024	SDS Number: 4091801-00013	Date of last issue: 06.04.2024 Date of first issue: 21.03.2019	
Remarks Skin and body protection		Additional boo task being pe posable suits)	or laboratory coat. dy garments should be used based upon the formed (e.g., sleevelets, apron, gauntlets, dis- to avoid exposed skin surfaces. ate degowning techniques to remove potentially	
Respiratory protection Filter type		: If adequate lo sure assessm ommended gu Equipment sh	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Equipment should conform to I.S. EN 143 Particulates type (P)	

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	powder
Colour	:	white
Odour	:	No data available
Odour Threshold	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, han- dling or other means.
Flammability (liquids)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
рН	:	No data available
Viscosity		

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



Diazoxide (>30%) Formulation

VersionRevision Date:2.328.09.2024	SDS Number:Date of last issue: 06.04.20244091801-00013Date of first issue: 21.03.2019
Viscosity, kinematic	: Not applicable
Solubility(ies) Water solubility	: No data available
Partition coefficient: n- octanol/water	: Not applicable
Vapour pressure	: Not applicable
Relative density	: No data available
Density	: No data available
Relative vapour density	: Not applicable
Particle characteristics Particle size	: No data available
9.2 Other information	
Explosives	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.
Evaporation rate	: Not applicable
Molecular weight	: No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions						
Hazardous reactions :	May form explosive dust-air mixture during processing, han- dling or other means. Can react with strong oxidizing agents.					
10.4 Conditions to avoid						
Conditions to avoid :	Heat, flames and sparks. Avoid dust formation.					
10.5 Incompatible materials						
Materials to avoid :	Oxidizing agents					

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



Diazoxide (>30%) Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
2.3	28.09.2024	4091801-00013	Date of first issue: 21.03.2019

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on hazard classe Information on likely routes of exposure		as defined in Regulation (EC) No 1272/2008 Inhalation Skin contact Ingestion Eye contact			
Acute toxicity					
Not classified based on availab	ble	information.			
Product:					
Acute oral toxicity	:	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method			
Components:					
Diazoxide:					
Acute oral toxicity	:	LD50 (Rat): 980 mg/kg			
		LD50 (Mouse): 444 mg/kg			
		LD50 (Guinea pig): 191 mg/kg			
Acute toxicity (other routes of administration)	:	LD50 (Mouse): 228 mg/kg Application Route: Intravenous			
		LD50 (Mouse): 326 mg/kg Application Route: Intraperitoneal			
		LD50 (Rat): 510 mg/kg Application Route: Intraperitoneal			
Skin corrosion/irritation					
Not classified based on availab	Not classified based on available information.				
Serious eye damage/eye irritation Not classified based on available information.					

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



Diazoxide (>30%) Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
2.3	28.09.2024	4091801-00013	Date of first issue: 21.03.2019

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

May damage the unborn child.

Components:

Diazoxide:

Effects on foetal develop-	:	Test ⁻
ment		Speci
		Annlia

Test Type: Development Species: Rat Application Route: Oral Developmental Toxicity: NOAEL: 30 mg/kg body weight Result: Effects on foetal development, foetal abnormalities

Test Type: Development Species: Rat Application Route: Oral Developmental Toxicity: LOAEL: 100 mg/kg body weight Result: Effects on foetal development, foetal abnormalities

Test Type: Development Species: Rat Application Route: Intravenous Developmental Toxicity: LOAEL: 10 mg/kg body weight Result: Fetotoxicity

Test Type: Development Species: Mouse Application Route: Intraperitoneal Developmental Toxicity: NOAEL: 30 mg/kg body weight Result: foetal mortality

Test Type: Development Species: Mouse Application Route: Intraperitoneal Developmental Toxicity: LOAEL: 60 mg/kg body weight Result: foetal mortality

Test Type: Development Species: Rabbit Application Route: Intravenous Developmental Toxicity: NOAEL: 7 mg/kg body weight Result: foetal abnormalities

Test Type: Development Species: Rabbit Application Route: Intravenous Developmental Toxicity: LOAEL: 21 mg/kg body weight Result: foetal abnormalities

Test Type: Development Species: Dog Application Route: Intravenous

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



Diazoxide (>30%) Formulation

Version 2.3	Revision Date: 28.09.2024		DS Number: 91801-00013	Date of last issue: 06.04.2024 Date of first issue: 21.03.2019
			Developmental T Result: foetal mo	Foxicity: NOAEL: 5 mg/kg body weight ortality
			Test Type: Deve Species: Dog Application Rout Developmental T Result: foetal mo	e: Intravenous Foxicity: LOAEL: 10 mg/kg body weight
			Test Type: Deve Species: Monke Application Rout Developmental Result: No terato	y e: Intravenous Foxicity: LOAEL: 5 mg/kg body weight
Repro sessn	oductive toxicity - As- nent	:	May damage the	e unborn child.
	- single exposure lassified based on avai	lable	information.	
	- repeated exposure			
	es damage to organs th	nroug	h prolonged or re	peated exposure.
	oonents:			
Targe	oxide: et Organs ssment	:	Pancreas, Kidne Causes damage exposure.	y, Heart to organs through prolonged or repeated
Repe	ated dose toxicity			
<u>Com</u>	oonents:			
Diazo	oxide:			
Expos			Rat 400 mg/kg Oral 2 Weeks Adrenal gland	
Expos	EL cation Route sure time et Organs		Rat 1,080 mg/kg Oral 3 Months Pancreas hyperglycemia	
Expos			Rat 200 mg/kg Oral 52 Weeks Heart, Liver, Adr	enal gland, Thyroid

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



Diazoxide (>30%) Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
2.3	28.09.2024	4091801-00013	Date of first issue: 21.03.2019

Species	: Dog	
NOAEL	: 200 mg/kg	
Application Route	: Oral	
Exposure time	: 82 Weeks	
Target Organs	: Pancreas	
Symptoms	: hyperglycemia	

Aspiration toxicity

Not classified based on available information.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Experience with human exposure

Components:

Diazoxide:

General Information	:	Symptoms: hyperglycemia, hypotension, Nausea, Vomiting, Dizziness, Weakness
Ingestion	:	Symptoms: sodium retention, water retention, anorexia, Ab- dominal pain, Diarrhoea, tachycardia, Palpitation

SECTION 12: Ecological information

12.1 Toxicity

Components:	
Diazoxide:	
Ecotoxicology Assessment Acute aquatic toxicity :	Toxic effects cannot be excluded
Chronic aquatic toxicity :	Toxic effects cannot be excluded
12.2 Persistence and degradability No data available	

12.3 Bioaccumulative potential

Components:

Diazoxide:



Diazoxide (>30%) Formulation

Version 2.3	Revision Date: 28.09.2024	SDS Number: 4091801-00013	Date of last issue: 06.04.2024 Date of first issue: 21.03.2019
	ion coefficient: n- ol/water	: log Pow: 1.2	
	lity in soil ata available		
12.5 Resu	Its of PBT and vPvB	assessment	
<u>Prod</u> Asse	<u>uct:</u> ssment	to be either p	ce/mixture contains no components considered persistent, bioaccumulative and toxic (PBT), or ent and very bioaccumulative (vPvB) at levels of er.
12.6 Endo	ocrine disrupting pro	perties	
Prod	uct:		
Asse	ssment	ered to have REACH Artic	ce/mixture does not contain components consid- endocrine disrupting properties according to cle 57(f) or Commission Delegated regulation 100 or Commission Regulation (EU) 2018/605 at % or higher.
12.7 Othe	r adverse effects		
No da	ata available		

13.1 Waste treatment methods	
Product	 Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Do not dispose of waste into sewer.
Contaminated packaging	: Empty containers should be taken to an approved waste han- dling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number or ID number

ADN	: Not regulated as a dangerous good
ADR	: Not regulated as a dangerous good
RID	: Not regulated as a dangerous good
IMDG	: Not regulated as a dangerous good
ΙΑΤΑ	: Not regulated as a dangerous good

14.2 UN proper shipping name

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



Diazoxide (>30%) Formulation

VersionRevision Date:SDS Number:Date of last issue: 06.04.20242.328.09.20244091801-00013Date of first issue: 21.03.2019					
ADN : Not regulated as a dangerous good					
ADR : Not regulated as a dangerous good					
RID : Not regulated as a dangerous good					
IMDG : Not regulated as a dangerous good					
IATA : Not regulated as a dangerous good					
14.3 Transport hazard class(es)					
ADN : Not regulated as a dangerous good					
ADR : Not regulated as a dangerous good					
RID : Not regulated as a dangerous good					
IMDG : Not regulated as a dangerous good					
IATA : Not regulated as a dangerous good					
14.4 Packing group					
ADN : Not regulated as a dangerous good					
ADR : Not regulated as a dangerous good					
RID : Not regulated as a dangerous good					
IMDG : Not regulated as a dangerous good					
IATA (Cargo) : Not regulated as a dangerous good					
IATA (Passenger) : Not regulated as a dangerous good					
14.5 Environmental hazards					
Not regulated as a dangerous good					
14.6 Special precautions for user Not applicable					
14.7 Maritime transport in bulk according to IMO instruments					
Remarks : Not applicable for product as supplied.					

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Not applicable
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
Regulation (EC) on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast)	:	Not applicable
Regulation (EU) No 649/2012 of the European Parlia-	:	Not applicable



Diazoxide (>30%) Formulation

Version	Revision Date: 28.09.2024	SDS Number:	Date of last issue: 06.04.2024
2.3		4091801-00013	Date of first issue: 21.03.2019
of da REA (Anne Seve	ngerous chemicals CH - List of substance ex XIV) so III: Directive 2012/ [,]	erning the export and i s subject to authorisati 18/EU of the European olving dangerous subs	on : Not applicable Parliament and of the Council on the control of

Not applicable

Other regulations:

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

The components of this product are reported in the following inventories:

AICS	:	not determined
DSL	:	not determined
IECSC	:	not determined

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

ECTION 16: Other information	tion	
Other information	:	Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.
Full text of H-Statements		
H302	:	Harmful if swallowed.
H360D	:	May damage the unborn child.
H372	:	Causes damage to organs through prolonged or repeated exposure.
Full text of other abbrevia	tions	
Acute Tox.	:	Acute toxicity
Repr.	:	Reproductive toxicity
STOT RE	:	Specific target organ toxicity - repeated exposure
IE OEL	:	Ireland. List of Chemical Agents and Carcinogens with Occu- pational Exposure Limit Values - Code of Practice, Schedule 1 and 2
IE OEL / OELV - 8 hrs (TW)	A) :	Occupational exposure limit value (8-hour reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -



Diazoxide (>30%) Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 06.04.2024
2.3	28.09.2024	4091801-00013	Date of first issue: 21.03.2019

European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Sources of key data used to compile the Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/	
Classification of the mixture	: :	Classification procedure:	
Repr 1B	нзи	SOD Calculation method	

Repr. 1B	H360D	Calculation method
STOT RE 1	H372	Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

IE / EN